

Amendments To the Claims:

Please amend the claims as shown. Applicants reserve the right to pursue any cancelled claims at a later date.

1.-14. (cancelled)

15. (new) A system for using services provided in at least one communication network having internet mechanisms, the system comprising:

a communication network having internet mechanisms;

at least one automation system having automation components connected by a conventional field bus; and

a service access unit for connecting the conventional field bus to the communication network, wherein the service access unit is provided as a client for requesting the services and includes a protocol converter for adapting a first communication protocol used by the services to a second communication protocol used by the field bus.

16. (new) The system according to claim 15, wherein the service access unit is integrated into the automation system.

17. (new) The system according to claim 15, wherein
the communication network has at least one central register database for providing information about at least part of the services, and

the service access unit includes a search engine configured to search the central register database.

18. (new) The system according to claim 15, wherein the services are web services.

19. (new) The system according to claim 15, wherein the communication network is an intranet.

20. (new) The system according to claim 15, wherein the service access unit is configured to provide further services in the communication network.

21. (new) A method for using services provided in at least one communication network having internet mechanisms and at least one automation system comprising automation components connected by a conventional field bus, the method comprising:

connecting the conventional field bus to the communication network by a service access unit;

adapting a first communication protocol used by the services to a second communication protocol used by the field bus by a protocol converter included in the service access unit; and

accessing the services by the automation components using the service access unit as a client.

22. (new) The method according to claim 21, wherein the service access unit is integrated into the automation system.

23. (new) The method according to claim 21, further comprising:

providing at least one central register database having information about at least part of the services, and

searching the central register database by a search engine included in the service access unit when accessing the services.

24. (new) The method according to claim 21, wherein the services are web services.

25. (new) The method according to claim 21, wherein the communication network is an intranet.

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26. (new) The method according to claim 21, wherein the service access unit is configured to provide further services in the communication network.

27. (new) The method according to claim 21, wherein the services include executing a software update of at least one of the automation components.

28. (new) A service access unit for connecting an automation system having automation components to a communication network having internet mechanisms, comprising a protocol converter for adapting a first communication protocol used by the services to a second communication protocol used by a conventional field bus, the conventional field bus connecting the automation components, wherein the service access unit is configured as an internet client or an intranet client for requesting the services.